

PTO/SB/08A (08-03)

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Complete if Known

Application Number	10/728,499
Filing Date	December 5, 2003
First Named Inventor	Norberto A. Guzman
Art Unit	1753
Examiner Name	(unassigned)
Attorney Docket Number	57430.00008

Sheet 1 of 14

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
UJ		US- 5,045,172		Guzman	
		US- 5,202,010		Guzman	
		US- 5,246,577		Fuchs et al.	
		US- 5,318,680		Fishman et al.	
		US- 5,340,452		Brenner et al.	
		US- 5,548,633		Karger et al.	
		US- 5,413,686		Klein et al.	
		US- 5,439,578		Dovichi et al.	
		US- 5,453,382		Novotny et al.	
		US- 5,498,324		Yeung et al.	
		US- 5,516,409		Kambara	
		US- 5,560,811		Briggs et al.	
		US- 5,730,850		Kambara et al.	
		US- 5,741,639		Ensing et al.	
		US- 5,800,692		Naylor et al.	
		US- 5,958,202		Regnier et al.	
		US- 6,007,690		Nelson et al.	
		US- 6,010,607		Ramsey	
		US- 6,010,608		Ramsey	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
UJ		WO 95/10344	4/1995			
		WO 97/11362	3/1997			
UJ		WO 00/30751	6/2000			
UJ		WO 00/65354	11/2000			
UJ		WO 02/44703 A2	6/2002			
UJ		WO 02/48716 A2	6/2002			

Examiner Signature		Date Considered	10/11/05
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UJ		US- 6,020,208		Hutchens et al.	
		US- 6,224,728		Oborny et al.	
		US- 6,387,234		Yeung et al.	
		US- 6,395,169		Hindsgaul et al.	
		US- 6,406,604		Guzman	
		US- 6,415,821		Kambolz et al.	
		US- 6,534,262		McKernan et al.	
		US- 6,544,396		Cong et al.	
		US- 6,554,986		Mathies et al.	
		US- 6,562,214		Amrhein et al.	
		US- 6,596,140		Nordman et al.	
		US- 6,613,212		Siebert et al.	
		US- 6,616,824		Tanaka	
		US- 6,627,453		Hindsgaul et al.	
V		US- 6,635,164		Anazawa et al.	
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UJ		WO 02/059592 A2	8/2002			
UJ		WO 03/27028 A1	4/2003			
UJ		WO 03/038424 A1	5/2003			
UJ		WO 03/48755 A1	6/2003			
UJ		WO 03/059935 A2	7/2003			
UJ		WO 03/087772 A2	10/2003			

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Attorney Docket Number	57430.00006

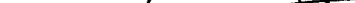
Sheet	3	of	14
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WJ		EP 1048950	11/2000		
WJ		EP 1048951	11/2000		
WJ		EP 0666980 B1	5/2002		
WJ		EP 1357378 A2	10/2003		

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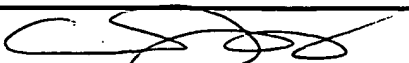
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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/728,499
		Filing Date	December 5, 2003
		First Named Inventor	Norberto A. Guzman
		Art Unit	1753
		Examiner Name	(unassigned)
Sheet 4	of 14	Attorney Docket Number	57430.00008

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
WJ		"Affinity Chromatography," Cuatrecasas and Anfinsen, Annual Review of Biochemistry 40, pp. 259-278. No month available (1971).	
WJ		"Isotachopheresis Electrodesorption of Proteins from an Affinity Adsorbent on a Microscale," Kasicka and Prusik, Journal of Chromatography 273(1), pp. 117-128 (March 11, 1983).	
WJ		"Desorption Isotachopheresis - Quantitative Characterization of Sorption and Desorption Conditions," Kasicka and Prusik, Journal of Chromatography 320(1), pp. 75-80 (February 22, 1985).	
WJ		"The Use of a Concentration Step to Collect Urinary Components Separated by Capillary Electrophoresis and Further Characterization of Collected Analytes by Mass Spectrometry," Guzman et al., Journal of Liquid Chromatography 14(5), pp. 997-1015 (March 1991).	
WJ		"Enzymophoresis of Nucleic Acids by Tandem Capillary Enzyme Reactor-Capillary Zone Electrophoresis," Nashabeh and Ziad El Rassi, Journal of Chromatography 596(2), pp. 251-264 (April 10, 1992).	
WJ		"Switching Valve with Internal Micro Precolumn for On-Line Sample Enrichment in Capillary Zone Electrophoresis," Debets et al., Journal of Chromatography 608(1-2), pp. 151-158 (September 11, 1992).	
WJ		"On-Line Peptide Mapping by Capillary Electrophoresis," Amankwa and Kuhr, Analytical Chemistry 65(19), pp. 2693-2697 (October 1, 1993).	
WJ		"Preparation and Evaluation of an On-Line Preconcentrator for Capillary Electrophoresis," Hoyt, Jr. et al., Journal of Microcolumn Separations 5(4), pp. 325-330, No month available (1993).	
WJ		"On-Line Sample Preconcentration on a Packet-Inlet Capillary for Improving the Sensitivity of Capillary Electrophoresis of Pharmaceuticals," Swartz and Merion, Journal of Chromatography 632(1-2), pp. 209-213 (February 19, 1993).	
WJ		"Immunoaffinity Capillary Electrophoresis Analysis of Cyclosporin in Tears," Phillips and Chmielinska, Biomedical Chromatography 8(5), pp. 242-246 (September-October 1994).	

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Sheet 5 of 14	Application Number	10/728,499
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	Art Unit	1753
	Examiner Name	(unassigned)
Attorney Docket Number		57430.00008

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WJ		"Optimization of On-Line Peptide Mapping by Capillary Zone Electrophoresis," Licklider and Kuhr, Analytical Chemistry 66(24), pp. 4400-4407 (December 15, 1994).	
WJ		"The Use of Solid Phase Concentrators for On-Line Preconcentration of Metallothionein Prior to Isoform Separation by Capillary Zone Electrophoresis," Beattie et al., Electrophoresis 16(3), pp. 322-328 (March 1995).	
WJ		"Selective Preconcentration for Capillary Zone Electrophoresis Using Protein G Immunoaffinity Capillary Chromatography," Cole and Kennedy, Electrophoresis 16(4), pp. 549-556 (April 1995).	
WJ		"Sensitivity Enhancement and Second-Dimensional Information from Solid Phase Extraction-Capillary Electrophoresis of Entire High-Performance Liquid Chromatography Fractions," Strausbauch et al., Electrophoresis 16(4), pp. 541-548 (April 1995).	
WJ		"Michaelis-Menten analysis of Immobilized enzyme by affinity capillary electrophoresis," Yoshimoto et al., Journal of Pharmaceutical and Biomedical Analysis 13(4-5), pp. 483-488 (April 1995).	
WJ		"Biomedical Applications of On-Line Preconcentration-Capillary Electrophoresis Using an Analyte Concentrator: Investigation of Design Options," Guzman, Journal of Liquid Chromatography 18(18&19), pp. 3751-3768 (June 1995).	
WJ		"Capillary enzymophoresis of nucleic acid fragments using coupled capillary electrophoresis and capillary enzyme microreactors having surface-immobilized RNA-modifying enzymes," Mechref and El Rassl, Electrophoresis 16(11), pp. 2164-2171 (November 1995).	
WJ		"Immobilization of Antibodies as a Versatile Tool in Hybridized Capillary Electrophoresis," Ensing and Paulus, Journal of Pharmaceutical and Biomedical Analysis 14(3), pp. 305-316 (January 1996).	
WJ		"On-Capillary Sample Preconcentration Incorporated in Chiral Capillary Electrophoresis," He et al., Analytical Sciences 12, pp. 177-181 (April 1996).	
WJ		"Preconcentration and Microreaction Technology On-Line with Capillary Electrophoresis," Tomlinson et al., Journal of Chromatography A 744(1-2), pp. 3-15 (13 September, 1996).	

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Sheet 6	of	Attorney Docket Number 57430.00008	

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WS		"Protein Identification by Solid Phase Microextraction-Capillary Zone Electrophoresis-Microelectrospray-Tandem Mass Spectrometry," Figeys et al., Nature Biotechnology 14(11), pp. 1579-1583 (November 1996).	
WS		"Consecutive protein digestion and peptide derivatization employing an on-line analyte concentrator to map proteins using capillary electrophoresis," Guzman, In: Capillary Electrophoresis in Analytical Biotechnology (Edited by Pier Giorgio Righetti), CRC Series in Analytical Biotechnology, Chapter 4, pp. 101-121, CRC Press, Inc. Boca Raton, Florida (1998, No month available).	
WS		"Identification of Proteins by Capillary Electrophoresis-Tandem Mass Spectrometry. Evaluation of an On-Line Solid-Phase Extraction Device," Figeys et al., Journal of Chromatography A 763(1-2), pp. 295-306 (28 February, 1997).	
WS		"High-Throughput DNA Sequencing on a Capillary Array Electrophoresis System," Marsh et al., Journal of Capillary Electrophoresis 4(2), pp. 83-89 (March-April 1997).	
WS		"New Approaches in Clinical Chemistry: On-Line Analyte Concentration and Microreaction Capillary Electrophoresis for the Determination of Drugs, Metabolic Intermediates, and Biopolymers in Biological Fluids," Guzman et al., Journal of Chromatography B 697(1-2), pp. 37-66 (September 12, 1997).	
WS		"Automated Microanalysis Using Magnetic Beads with Commercial Capillary Electrophoresis Instrumentation," Rashkovetsky et al., Journal of Chromatography A, 781(1-2), pp. 197-204 (26 September, 1997).	
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WS		"Analysis of Multiplexed Short Tandem Repeat (STR) Systems Using Capillary Array Electrophoresis," Mansfield et al., Electrophoresis 19(1), pp. 101-107 (January, 1998).	
WS		"A New Design for Large, Dilute Sample Loading in Capillary Electrophoresis," Barroso and de Jong, Journal of Capillary Electrophoresis 5(1-2), pp. 1-7 (January-February-March-April, 1998).	
WS		"Affinity Capillary Electrophoresis: A Physical-Organic Tool for Studying Interactions in Biomolecular Recognition," Colton et al., Electrophoresis 19(3), pp. 367-382 (March 1998).	

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WJ		"Survey of Recent Advances in Analytical Applications of Immunoaffinity Chromatography," Hage, Journal of Chromatography B 715(1), pp. 3-28 (September 11, 1998).	
WJ		"Affinity Capillary Electrophoresis: Important Application Areas and Some Recent Developments," Heegaard et al., Journal of Chromatography B 715(1), pp. 29-54 (September 11, 1998).	
WJ		"Recycling Immunoaffinity Chromatography for Multiple Analyte Analysis in Biological Samples," Phillips and Krum, Journal of Chromatography B 715(1), pp. 55-63 (September 11, 1998).	
WJ		"Nanoflow Solvent Gradient Delivery from a Microfabricated Device for Protein Identifications by Electrospray Ionization Mass Spectrometry," Figeys and Aebersold, Analytical Chemistry 70(18), pp. 3721-3727 (September 15, 1998).	
WJ		"Fabrication of Nanocolumns for Liquid Chromatography," He et al., Analytical Chemistry 70(18), pp. 3790-3797 (September 15, 1998).	
WJ		"Parallel Molecular Genetic Analysis," McKenzie et al., European Journal of Human Genetic 6(5), pp. 417-429 (September-October, 1998).	
WJ		"Optimization of Solid Phase Microextraction-Capillary Zone Electrophoresis-Mass Spectrometry for High Sensitivity Protein Identification," Figeys et al., Electrophoresis 19(13), pp. 2338-2347 (October, 1998).	
WJ		"Analysis of Recombinant Cytokines in Human Body Fluids by Immunoaffinity Capillary Electrophoresis," Phillips and Dickens, Electrophoresis 19(16-17), pp. 2991-2996 (November, 1998).	
WJ		"Evaluation of Adsorption Preconcentration/Capillary Zone Electrophoresis/Nanospray Mass Spectrometry for Peptide and Glycoprotein Analyses," Bateman et al., Journal of Mass Spectrometry 33(11), pp. 1109-1123 (November, 1998).	
WJ		"Precolumn Affinity Capillary Electrophoresis for the Identification of Clinically Relevant Proteins in Human Serum: Application to human Cardiac Troponin I," Dalluge and Sander, Analytical Chemistry 70(24), pp. 5339-5343 (December 15, 1998).	

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		Application Number	10/728,499		
		Filing Date	December 5, 2003		
		First Named Inventor	Norberto A. Guzman		
		Art Unit	1753		
		Examiner Name	(unassigned)		
Sheet	8	of	14	Attorney Docket Number	57430.00008

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
WS		"On-Line Bioaffinity, Molecular Recognition, and Preconcentration in CE Technology," Guzman, LC-GC 17(1), pp. 16-27 (January 1999).	
WS		"Capillary Array Electrophoresis DNA Sequencing," Kheterpal and Mathies, Analytical Chemistry 71(1), pp. 31A-37A (January 1, 1999).	
WS		"Membrane Preconcentration CE," Yang et al., Analytical Chemistry 71(5), pp. 183A-189A (March 1, 1999).	
WS		"An On-Line Preconcentrator and the Evaluation of Electrospray Interfaces for the Capillary Electrophoresis/Mass Spectrometry of Peptides," Herring and Qin, Rapid Communications in Mass Spectrometry 13(1), pp. 1-7, No month available (1999).	
WS		"SDS Capillary Electrophoresis of Proteins in Microfabricated Channels," Yao et al., Proceedings of the National Academy of Sciences USA 96(10), pp. 5372-5377 (May 11, 1999).	
WS		"Miniaturised on-line solid-phase extraction for enhancement of concentration sensitivity in capillary electrophoresis," Petersson et al., Journal of Chromatography A 841(2), pp. 249-261 (14 May 1999).	
WS		"On-line solid-phase preconcentration for sensitivity enhancement in capillary electrophoresis," Bonnell and Waldron, Journal of Capillary Electrophoresis 6(3-4), pp. 61-73 (May-August 1999).	
WS		"Monitoring the purity of a synthetic peptide by capillary electrophoresis: Utilization of an on-line preconcentration method for improved separation and detection sensitivity," Vizioli et al., Journal of Capillary Electrophoresis 6(3-4), pp. 109-118 (May-August 1999).	
WS		"Simultaneous Genetic Typing from Multiple Short Tandem Repeat Loci Using a 96-Capillary Array Electrophoresis System," Gao et al., Electrophoresis 20(7), pp. 1518-1526 (June 1999).	
WS		"Dynamic Hybridization on a Chip Using Paramagnetic Beads," Fan et al., Analytical Chemistry 71(21), pp. 4851-4859 (November 1, 1999).	

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**INFORMATION DISCLOSURE
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Filing Date	December 5, 2003
First Named Inventor	Norberto A. Guzman
Art Unit	1753
Examiner Name	(unassigned)
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WS		"Radial Capillary Array Electrophoresis Microplate and Scanner for High-Performance Nucleic Acid Analysis," Shi et al., Analytical Chemistry 71(23), pp. 5354-5361 (December 1, 1999).	
WS		"Sheath less Preconcentration-Capillary Zone Electrophoresis-Mass Spectrometry Applied to Peptide Analysis," Begona Barroso and de Jong, Journal of the American Society for Mass Spectrometry 10(12), pp. 1271-1278 (December 1999).	
WS		"Characterization of a solid-phase extraction device for discontinuous on-line preconcentration in capillary electrophoresis-based peptide mapping," Bonnell and Waldron, Journal of Chromatography B 736(1-2), pp. 273-287 (December 24, 1999).	
WS		"Strategies to improve the sensitivity in capillary electrophoresis for the analysis of drugs in biological fluids," Hempel, Electrophoresis 21(4), pp. 691-698 (March 2000).	
WS		"Mapping the phosphorylation sites of proteins using on-line immobilized metal affinity chromatography/capillary electrophoresis/electrospray ionization multiple stage tandem mass spectrometry," Cao and Stults, Rapid Communication Mass Spectrometry 14(17), pp. 1600-16006. No month available (2000).	
WS		"Packing columns for capillary electrochromatography," Colon et al., Journal of Chromatography A 887(1-2), pp. 43-53 (July 28, 2000).	
WS		"Stationary phases for capillary electrochromatography," Pursch and Sander, Journal of Chromatography A 887(1-2), pp. 313-326 (July 28, 2000).	
WS		"On-line preconcentration methods for capillary electrophoresis," Osbourn et al., Electrophoresis 21(14), pp. 2768-2779 (August 2000).	
WS		"Alternative methods providing enhanced sensitivity and selectivity in capillary electrophoresis," Schweitz et al., Journal of Chromatography A 892(1-2), pp. 203-217 (15 September 2000).	
WS		"Electrochromatography," Smith and Carter-Finch, Journal of Chromatography A 892(1-2), pp. 219-255 (15 September 2000).	

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First Named Inventor	Norberto A. Guzman
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WJ		"Advances in column technology and instrumentation in capillary electrochromatography," Pyell, Journal of Chromatography A 892(1-2), pp. 257-278 (15 September 2000).	
WJ		"Sample preconcentration by field amplification stacking for microchip-based capillary electrophoresis," Lichtenberg et al., Electrophoresis 22(2), pp. 258-271 (January 2001).	
WJ		"Analysis of single-cell cultures by immunoaffinity capillary electrophoresis with laser-induced fluorescence detection," Phillips, Luminescence 16(2), pp. 145-152 (March-April 2001).	
WJ		"Sol-gel technique for the preparation of beta-cyclodextrin derivative stationary phase in open-tubular capillary electrochromatography," Wang et al., Electrophoresis 22(11), pp. 2167-2172 (18 July, 2001).	
WJ		"On-line sample preconcentration in capillary electrophoresis, focused on the determination of proteins and peptides," Stroink et al., Electrophoresis 22(12), pp. 2374-2383 (August 2001).	
WJ		"Approaches to enhancing the sensitivity of capillary electrophoresis methods for the determination of inorganic and small organic anions," Breadmore and Haddad, Electrophoresis 22(12), pp. 2464-2489 (August 2001).	
WJ		"Robust and cost-effective capillary electrophoresis-mass spectrometry interfaces suitable for combination with on-line analyte preconcentration," Waterval et al., Electrophoresis 22(13), pp. 2701-2708 (August 2001).	
WJ		"Capillary electrophoretic bioanalysis of therapeutically active peptides with UV and mass spectrometric detection after on-capillary preconcentration," Waterval et al., Electrophoresis 22(13), pp. 2709-2716 (August 2001).	
WJ		"The use of selective adsorbents in capillary electrophoresis-mass spectrometry for analyte preconcentration and microreactions: A powerful three-dimensional tool for multiple chemical and biological applications," Guzman and Stubbs, Electrophoresis 22(17), pp. 3602-3628 (October 2001).	
WJ		"Sample preparation with fiber-in-tube solid-phase microextraction for capillary electrophoretic separation of tricyclic antidepressant drugs in human urine," Jinno et al., Electrophoresis 22(17), pp. 3785-3790 (October 2001).	

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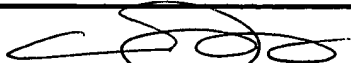
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Sheet 11	of	Attorney Docket Number	57430.00008

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WS		"Exploiting lectin affinity chromatography in clinical diagnosis," Satish and Surolia, Journal of Biochemical and Biophysics Methods 49(1-3), pp. 625-640 (October 30, 2001).	
WS		"On-line preconcentration in capillary electrochromatography using a porous monolith together with solvent gradient and sample stacking," Quirino et al., Analytical Chemistry 73(22), pp. 5557-5563 (November 15, 2001).	
WS		"Sensitivity enhancement by on-line preconcentration and in-capillary derivatization for the electrophoretic determination of amino acids," Latorre et al., Electrophoresis 22(20), pp. 4355-4361 (December 2001).	
WS		"Improved method for pepsinolysis of mouse IgG(1) molecules to F(ab') ₂ fragments," Wilson et al., Journal of Immunological Methods 260(1-2), pp. 29-36 (February 1, 2002).	
WS		"Application of microfluidic devices to proteomics research: Identification of trace level protein digests and affinity capture of target peptides," Li et al., Molecular & Cellular Proteomics 1(2), pp. 157-168 (February 2002).	
WS		"Toward a microchip-based solid-phase extraction method for isolation of nucleic acids," Wolfe et al., Electrophoresis 23(5): 727-733 (March 2002).	
WS		"Immunoaffinity screening with capillary electrophochromatography," Mayer et al., Electrophoresis 23(9), pp. 1255-1262 (May 2002).	
WS		"On-column ion-exchange preconcentration of inorganic anions in open tubular capillary chromatography with elution using transient-isotachophoretic gradients. 3. Implementation and method development," Breadmore et al., Analytical Chemistry 74(9), 2112-2118 (May 1, 2002).	
WS		"On-line trypsin-encapsulated enzyme reactor by the sol-gel method integrated into capillary electrophoresis," Sakai-Kato et al., Analytical Chemistry 74(13): 2943-2948 (July 1, 2002).	
WS		"Sweeping: Concentration mechanism and applications to high-sensitivity analysis in capillary electrophoresis," Quirino et al., Journal of Chromatography A 965(1-2), pp. 357-3773 (August 2002).	

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Art Unit	1753
Examiner Name	(unassigned)
Attorney Docket Number	57430.00008

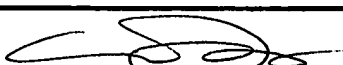
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WS		"On-chip chromatography: the last twenty years," de Mello, Lab on a Chip 2(3), pp. 48N-54N (August 2002).	
WS		"A new type of capillary column for open-tubular electrochromatography," Zhao et al., Electrophoresis 23(17), pp. 2990-2995 (September 2002).	
WS		"On-line drug metabolism system using microsomes encapsulated in a capillary by sol-gel method and integrated into capillary electrophoresis," Sakai-Kato et al., Analytical Biochemistry 308(2), pp. 278-284 (September 15, 2002).	
WS		"An integrated solid-phase extraction system for sub-picomolar detection," Jemere et al., Electrophoresis 23(20), pp. 3537-3544 (October 2002).	
WS		"Integration of solid-phase extraction membranes for sample multiplexing: application to rapid protein identification from gel-isolated protein extracts," Bonneil et al., Electrophoresis 23(20), pp. 3589-3598 (October 2002).	
WS		"Advances in sol-gel based columns for capillary electrochromatography: sol-gel open-tubular columns," Malik, Electrophoresis 23(22-23), pp. 3973-3992 (November 2002).	
WS		"Advances in sol-gel based columns for capillary electrochromatography: sol-gel open-tubular columns," Malik, Electrophoresis 23(22-23), pp. 3973-3992 (November 2002).	
WS		"On-chip coupling of isoelectric focusing and free solution electrophoresis for multidimensional separations," Herr et al., Analytical Chemistry 75(5), pp. 1180-1187 (March 1, 2003).	
WS		"Analysis of intracellular regulatory proteins by immunoaffinity capillary electrophoresis coupled with laser-induced fluorescence detection," Phillips and Smith, Biomedical Chromatography 17(2-3), pp. 182-187 (March 2003).	
WS		"Immuno-based sample preparation for trace analysis," Hennion and Pichon, Journal of Chromatography A 1000(1-2), pp. 29-52 (June 6, 2003).	

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US		"Silica gel-based monoliths prepared by the sol-gel method: facts and figures," Siouffi, Journal of Chromatography A 1000(1-2), pp. 801-818 (June 6, 2003).	
US		"On-line preconcentration strategies for trace analysis of metabolites by capillary electrophoresis," Britz-McKibbin and Terabe, Journal of Chromatography A 1000(1-2), pp. 917-934 (June 6, 2003).	
US		"Small structures fabricated using ash-forming biological materials as templates," Kim, Biomacromolecules 4(4), pp. 908-913 (July-August 2003).	
US		"On-line preconcentration in capillary electrophoresis using monolithic methacrylate porous," Baryla and Tottl, Analyst 128(8), pp. 1009-1012 (August 2003).	
US		"Capillary electrochromatography and preconcentration of neutral compounds on poly(dimethylsiloxane) microchips," Ro et al., Electrophoresis 24(18), pp. 3253-3259 (September 2003).	
US		"Preparation of hollow silica microspheres in W/O emulsions with polymers," Park et al., Journal of Colloid and Interface Science 266(1), pp. 107-114 (October 1, 2003).	
US		"Fluidic preconcentrator device for capillary electrophoresis of proteins," Astorga-Wells and Swerdlow, Analytical Chemistry 75(19), pp. 5207-5212 (October 1, 2003).	
US		"A microfluidic electrocapture device in sample preparation for protein analysis by MALDI spectrometry," Astorga-Wells et al., Analytical Chemistry 75(19), pp. 5213-5219 (October 1, 2003).	
US		"The 'right' size in nanobiotechnology," Whitesides, Nature Biotechnology 21(10), pp. 1161-1163 (October 2003).	
US		"Fabrication of novel biomaterials through molecular self-assembly," Zhang, Nature Biotechnology 21(10), pp. 1171-1178 (October 2003).	

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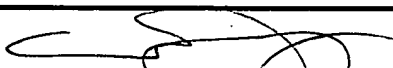
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WS		"Integrated nanoliter systems," Hong and Quake, Nature Biotechnology 21(10), pp. 1179-1183 (October 2003).	
WS		"Small-scale systems for in vivo drug delivery," La Van et al., Nature Biotechnology 21(10), pp. 1184-1191 (October 2003).	
WS		"Electrochemical DNA detectors," Drummond et al., 21(10), Nature Biotechnology 21(10), 1192-1199 (October 2003).	
WS		"Low-attomole electrospray ionization MS and MS/MS analysis of protein tryptic digests using 20-µm-i.d. polystyrene-divinylbenzene monolithic capillary columns," Ivanov et al., Analytical Chemistry 75(20), pp. 5306-5316.	
WS		"Dual-function microanalytical device by in situ photolithographic grafting of porous polymer monolith: Integrating solid-phase extraction and enzymatic digestion for peptide mass mapping," Peterson et al., Analytical Chemistry 75(20), pp. 5328-5335 (October 15, 2003).	
WS		"Phosphoprotein isotope-coded solid-phase tag approach for enrichment and quantitative analysis of phosphopeptides from complex mixtures," Qian et al., Analytical Chemistry 75(20), pp. 5441-5450 (October 15, 2003).	
WS		"Development of a poly(dimethylsiloxane) interface for on-line capillary column liquid chromatography-capillary electrophoresis coupled to sheathless electrospray ionization time-of-flight mass spectrometry," Bergstrom et al., Analytical Chemistry 75(20), pp. 5461-5467 (October 15, 2003).	
WS		"Chip-based solid-phase extraction pretreatment for direct electrospray mass spectrometry analysis using an array of monolithic columns in a polymeric substrate," Tan et al., Analytical Chemistry 75(20), pp. 5504-5511 (October 15, 2003).	
WS		"Biochemical analysis with microfluidic systems," Bilitewski et al., Analytical and Bioanalytical Chemistry 377(3), pp. 556-569 (October 2003).	
WS		"The puzzle of the proteome," Willis, Modern Drug Discovery 6(10), pp. 26-30 (October 2003).	

Examiner Signature		Date Considered	10/11/05
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10/728,499
Filing Date	December 5, 2003
First Named Inventor	Norberto A. Guzman, Ph.D.
Art Unit	1641
Examiner Name	Unsu Jung
Attorney Docket Number	57430-00008

Sheet	1	of	2
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U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ²
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
US		WO 03/012398	02/13/2003	Cetek Corporation		
US		WO 01/70381	09/27/2001	Covaris, Inc.		
US		WO 98/23950	06/04/1998	Oxford Glycosciences Ltd.		

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STATEMENT BY APPLICANT**

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Application Number Filing Date First Named Inventor Art Unit Examiner Name	10/728,499
	December 5, 2003
	Norberto A. Guzman, Ph.D.
	1641
	Unsu Jung
Attorney Docket Number	57430-00008

Sheet


2

of

2

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
WJ		GUZMAN, "Improved solid-phase microextraction device for use in on-line immunoaffinity capillary electrophoresis", Electrophoresis, November 2003, pp 3718-3727, vol. 24, no. 21	

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